

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
 Data File : BE088458.D
 Acq On : 1 Nov 2014 19:16
 Operator : TP/JJ
 Sample : F4368-08
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB40-1014

Manual Integrations
 APPROVED

mohammad
 11/4/2014 9:07:24 AM

Quant Time: Nov 02 04:50:48 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE103114.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Nov 01 00:42:07 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.08	152	26408	5.00	ng	0.00
3) Naphthalene-d8	8.64	136	96718	5.00	ng	0.00
7) Acenaphthene-d10	10.79	164	45544	5.00	ng	0.00
12) Phenanthrene-d10	12.89	188	93254	5.00	ng	0.00
16) Chrysene-d12	18.31	240	52373	5.00	ng	0.00
22) Perylene-d12	21.38	264	50153	5.00	ng	0.01
System Monitoring Compounds						
4) Nitrobenzene-d5	7.78	82	474826	66.94	ng	0.00
8) 2-Fluorobiphenyl	9.99	172	578792	45.09	ng	0.00
18) Terphenyl-d14	16.09	244	439798	45.71	ng	0.01
Target Compounds						Qvalue
5) Naphthalene	8.66	128	823	0.04	ng	# 80
6) 2-Methylnaphthalene	9.52	142	463	0.04	ng	# 87
9) Acenaphthylene	10.62	152	67341	0.91	ng	97
10) Acenaphthene	10.83	154	1203	0.11	ng	# 75
11) Fluorene	11.48	166	1528	0.13	ng	# 88
13) Phenanthrene	12.94	178	49618m	0.59	ng	98
14) Anthracene	13.02	178	63659	0.93	ng	98
15) Fluoranthene	15.17	202	49581	3.60	ng	100
17) Pyrene	15.63	202	60200	3.52	ng	98
19) Benzo(a)anthracene	18.29	228	119589	2.43	ng	96
20) Chrysene	18.36	228	128945	2.66	ng	96
21) Indeno(1,2,3-cd)pyrene	23.56	276	103151	2.29	ng	# 90
23) Benzo(b)fluoranthene	20.62	252	54064	4.92	ng	# 95
24) Benzo(k)fluoranthene	20.67	252	17587	1.45	ng	# 89
25) Benzo(a)pyrene	21.26	252	33397	3.16	ng	94
26) Dibenzo(a,h)anthracene	23.65	278	5080	0.52	ng	# 59
27) Benzo(g,h,i)perylene	24.20	276	101656	2.26	ng	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

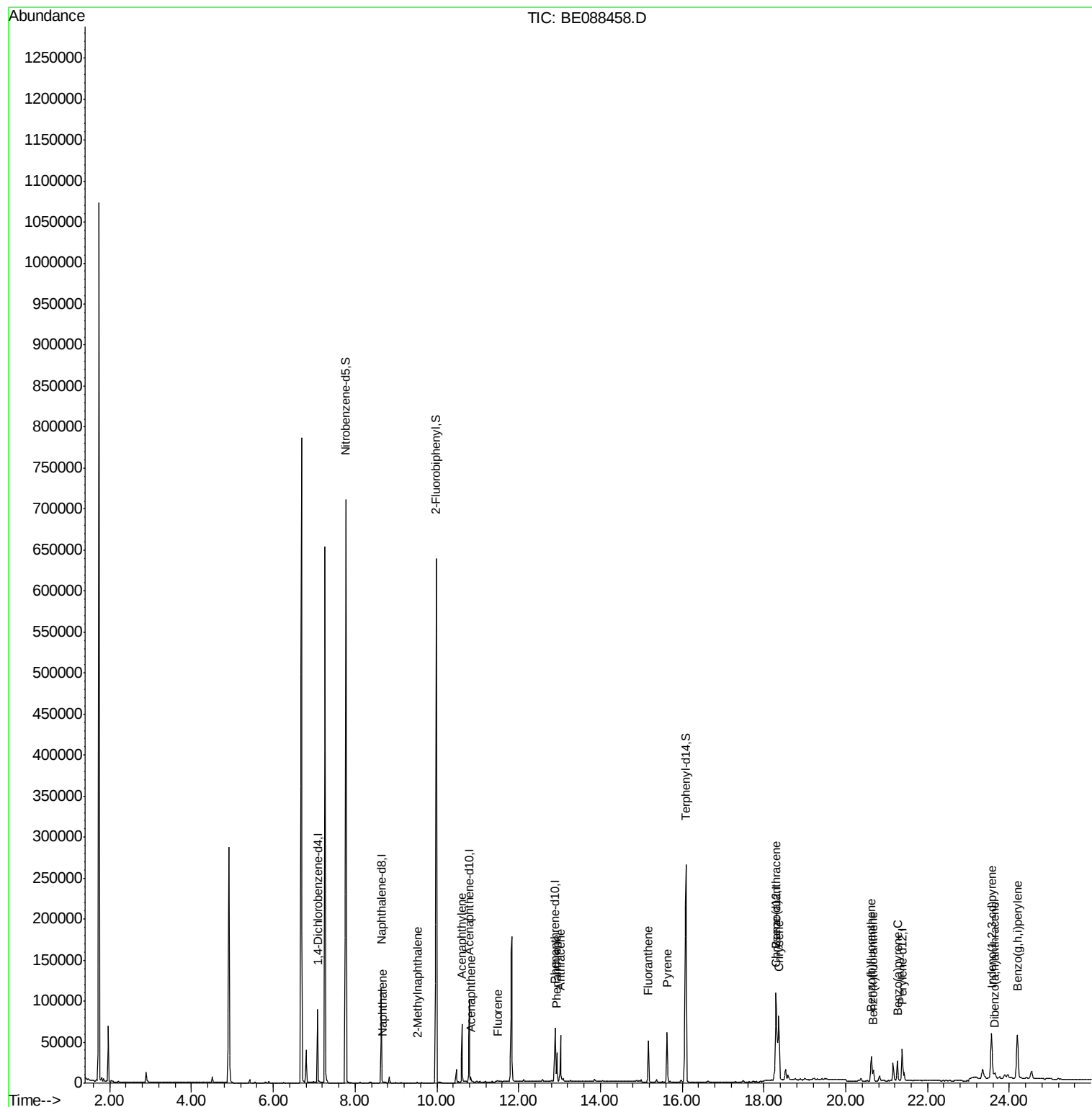
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
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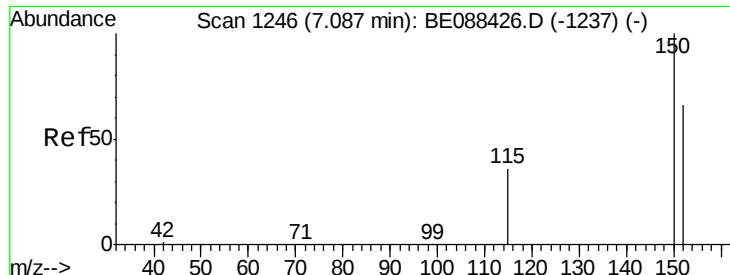
Instrument :
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.08 min Scan# 1245

Delta R.T. -0.01 min

Lab File: BE088458.D

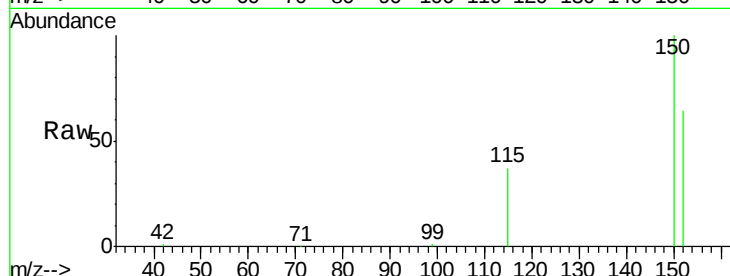
Acq: 1 Nov 2014 19:16

Instrument :

BNA_E

ClientSampleId :

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Tgt Ion:152 Resp: 26408

Ion Ratio Lower Upper

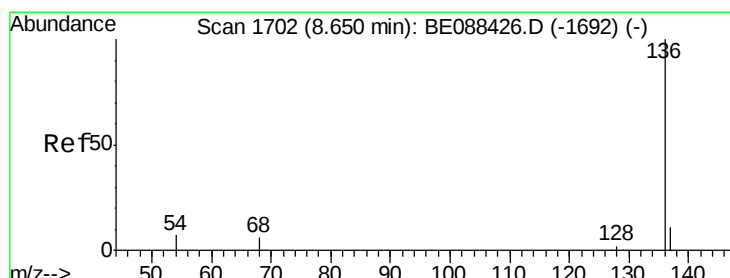
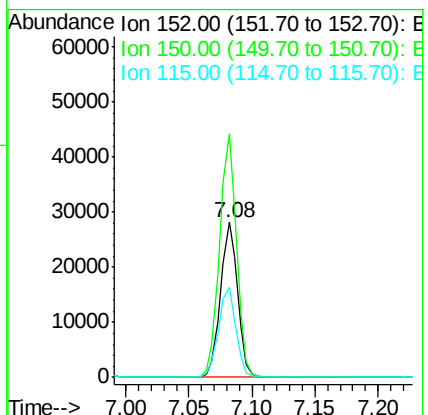
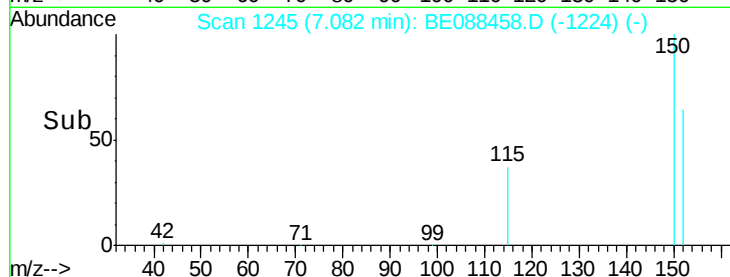
152 100

150 156.9 121.8 182.8

115 58.4 43.9 65.9

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#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.64 min Scan# 1701

Delta R.T. -0.01 min

Lab File: BE088458.D

Acq: 1 Nov 2014 19:16

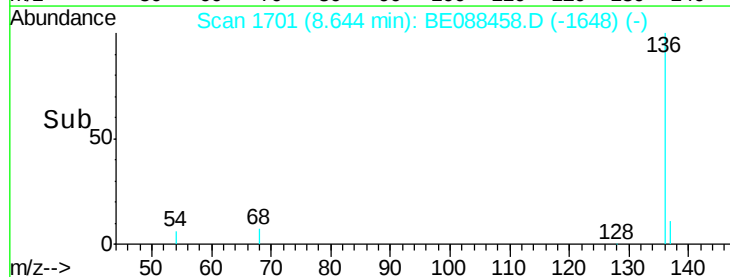
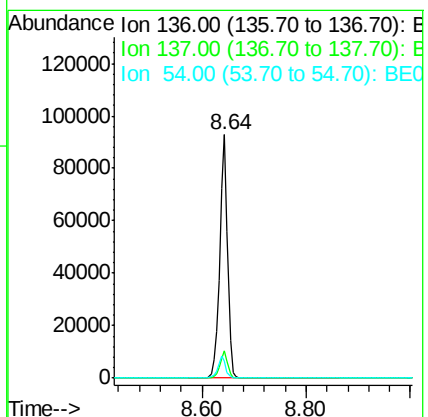
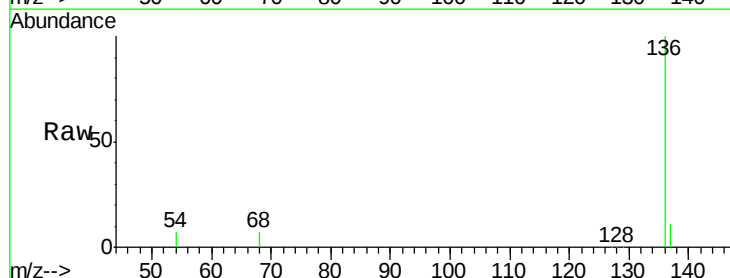
Tgt Ion:136 Resp: 96718

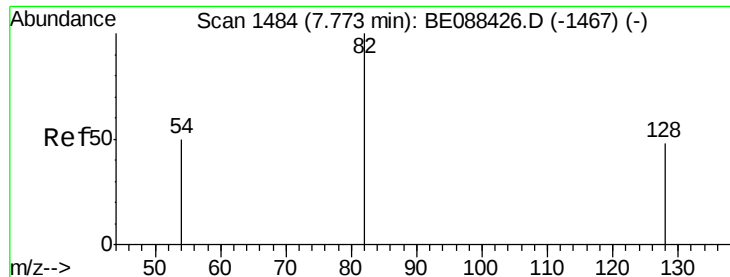
Ion Ratio Lower Upper

136 100

137 11.1 8.8 13.2

54 6.9 5.3 7.9





#4

Nitrobenzene-d5

Concen: 66.94 ng

RT: 7.78 min Scan# 1487

Delta R.T. 0.01 min

Lab File: BE088458.D

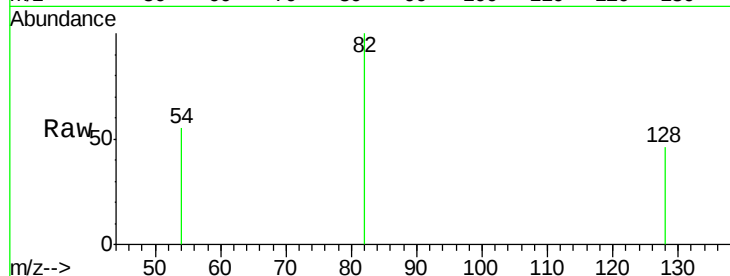
Acq: 1 Nov 2014 19:16

Instrument :

BNA_E

ClientSampleId :

YS19-SB40-1014



Tgt Ion: 82 Resp: 474826

Ion Ratio Lower Upper

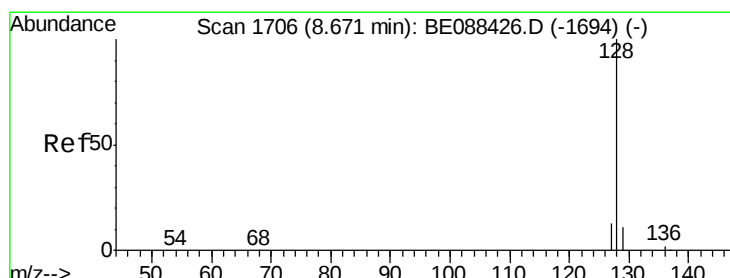
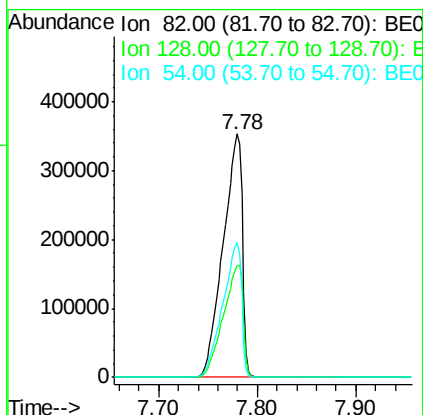
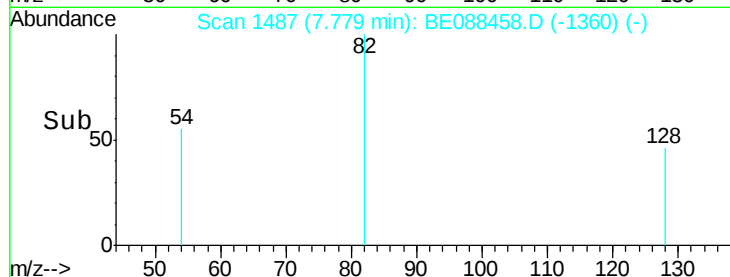
82 100

128 46.1 38.4 57.6

54 55.2 40.2 60.2

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#5

Naphthalene

Concen: 0.04 ng

RT: 8.66 min Scan# 1705

Delta R.T. -0.01 min

Lab File: BE088458.D

Acq: 1 Nov 2014 19:16

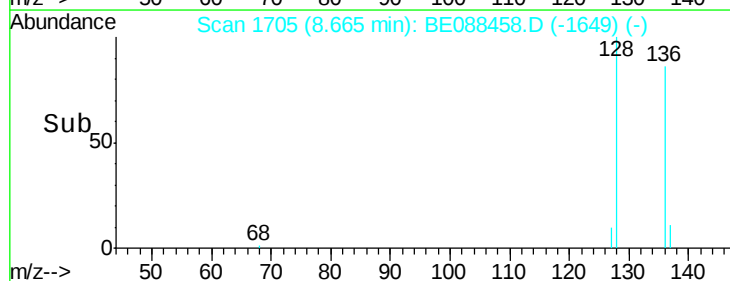
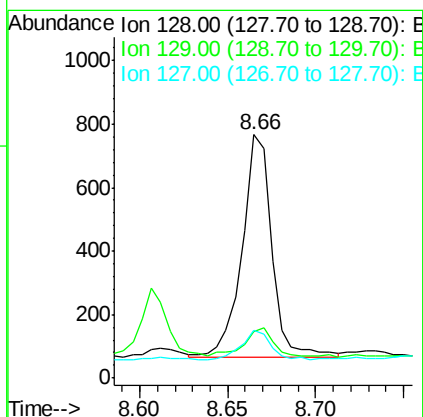
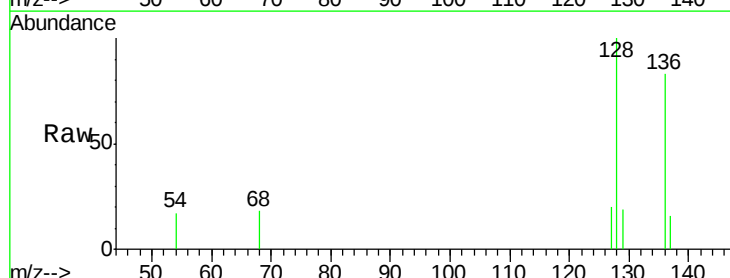
Tgt Ion: 128 Resp: 823

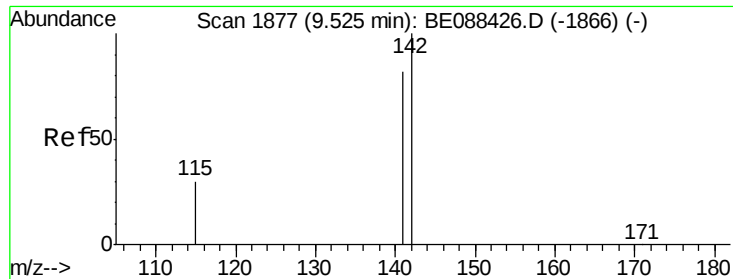
Ion Ratio Lower Upper

128 100

129 19.2 8.6 12.8#

127 19.8 10.1 15.1#





#6

2-Methylnaphthalene

Concen: 0.04 ng

RT: 9.52 min Scan# 1876

Delta R.T. -0.00 min

Lab File: BE088458.D

Acq: 1 Nov 2014 19:16

Instrument :

BNA_E

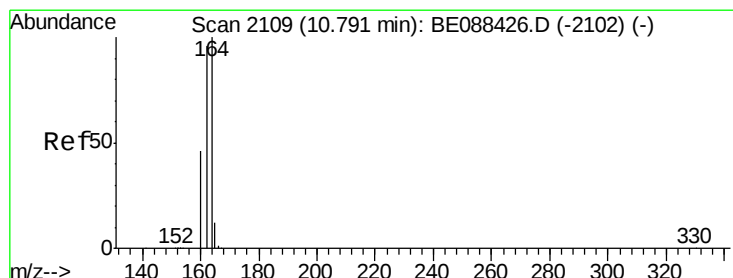
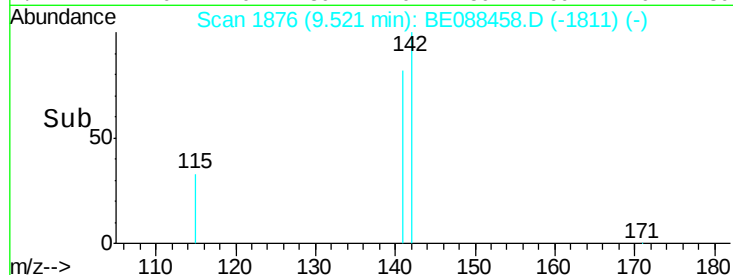
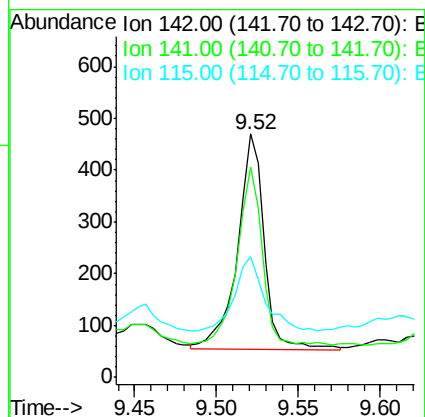
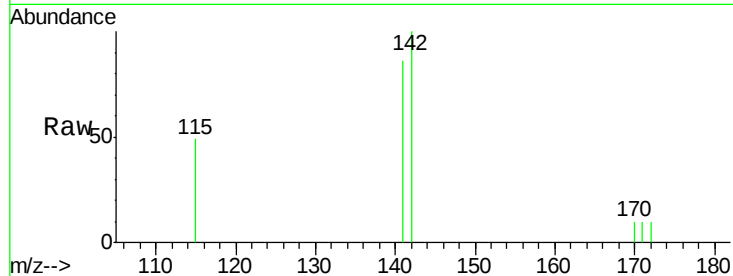
ClientSampleId :

YS19-SB40-1014

Tgt Ion:	142	Resp:	463
Ion Ratio	Lower	Upper	
142	100		
141	86.4	65.8	98.8
115	49.4	24.2	36.4#

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#7

Acenaphthene-d10

Concen: 5.00 ng

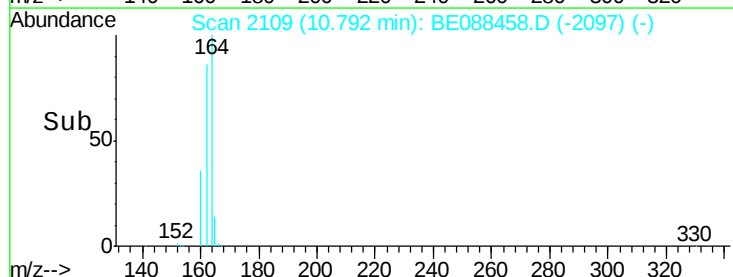
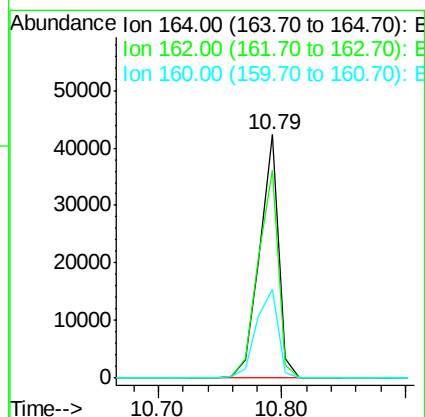
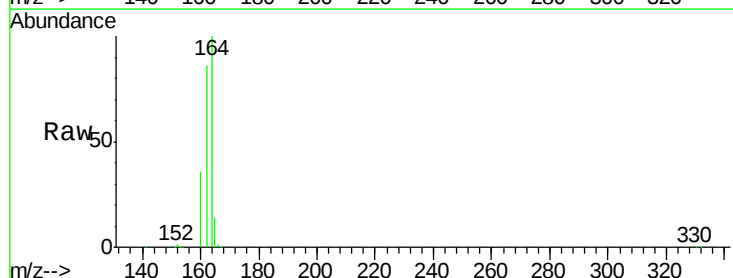
RT: 10.79 min Scan# 2109

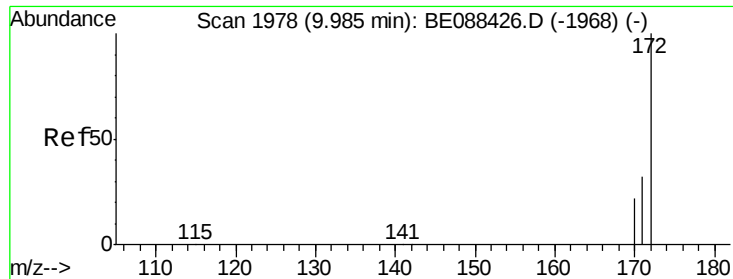
Delta R.T. 0.00 min

Lab File: BE088458.D

Acq: 1 Nov 2014 19:16

Tgt Ion:	164	Resp:	45544
Ion Ratio	Lower	Upper	
164	100		
162	85.6	77.0	115.4
160	36.4	36.8	55.2#





#8

2-Fluorobiphenyl

Concen: 45.09 ng

RT: 9.99 min Scan# 1979

Delta R.T. 0.00 min

Lab File: BE088458.D

Acq: 1 Nov 2014 19:16

Instrument :

BNA_E

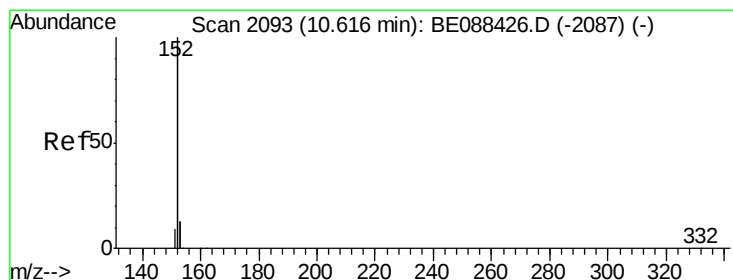
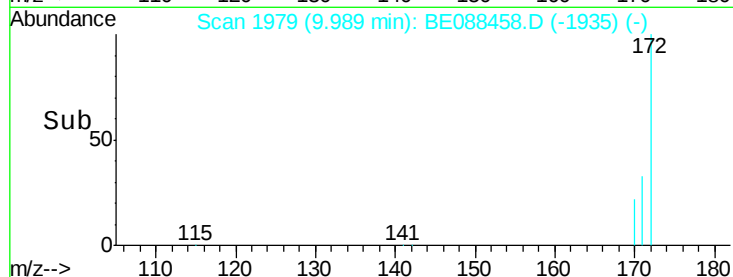
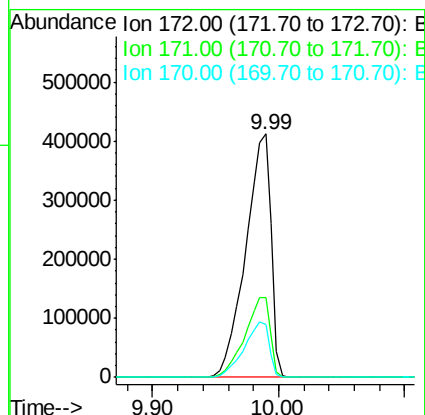
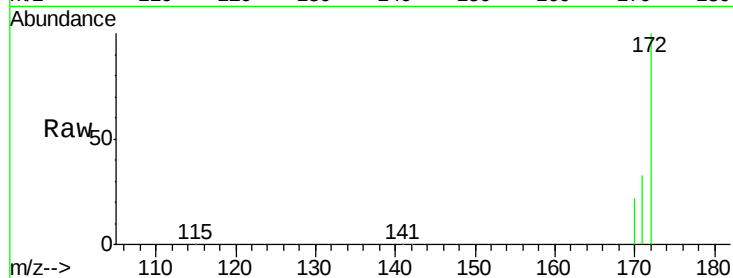
ClientSampleId :

YS19-SB40-1014

Tgt Ion:	172	Resp:	578792
Ion Ratio	Lower	Upper	
172	100		
171	32.7	26.0	39.0
170	21.7	17.6	26.4

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#9

Acenaphthylene

Concen: 0.91 ng

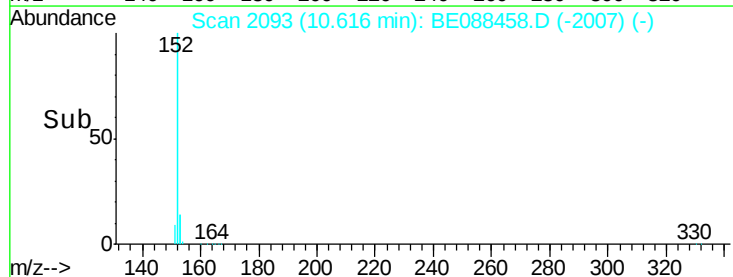
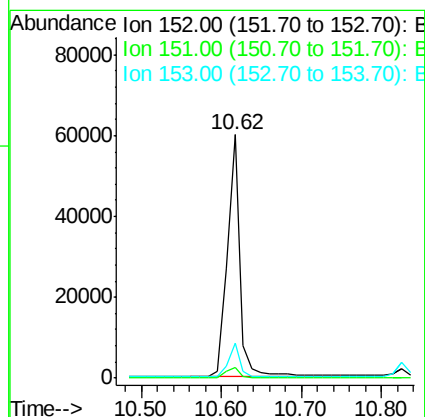
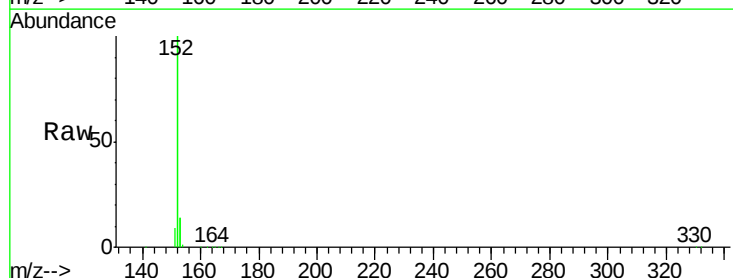
RT: 10.62 min Scan# 2093

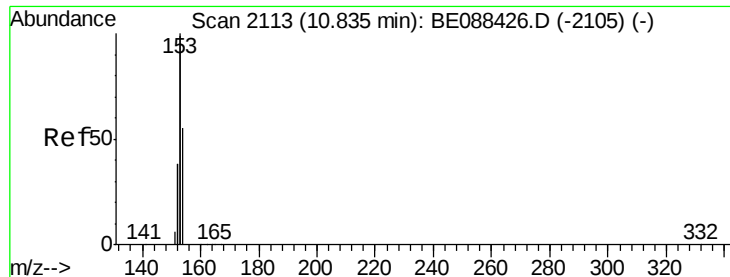
Delta R.T. 0.00 min

Lab File: BE088458.D

Acq: 1 Nov 2014 19:16

Tgt Ion:	152	Resp:	67341
Ion Ratio	Lower	Upper	
152	100		
151	4.8	4.4	6.6
153	14.4	10.5	15.7





#10

Acenaphthene

Concen: 0.11 ng

RT: 10.83 min Scan# 2112

Delta R.T. -0.01 min

Lab File: BE088458.D

Acq: 1 Nov 2014 19:16

Instrument :

BNA_E

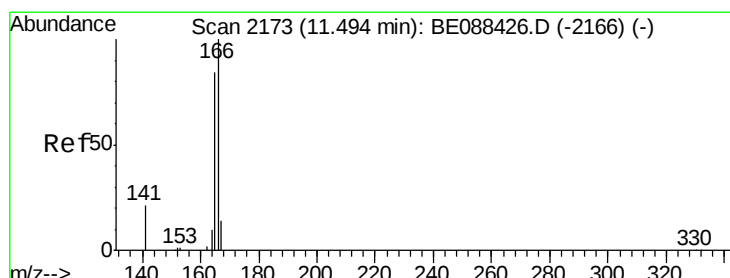
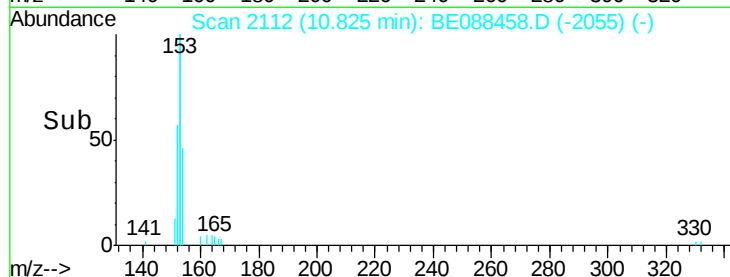
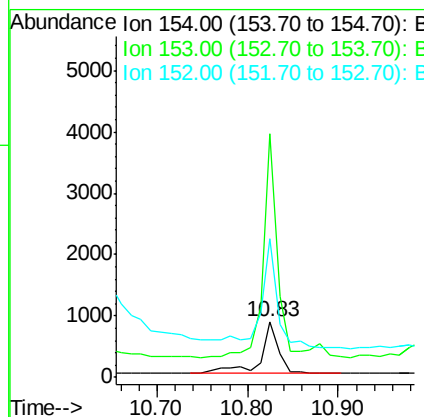
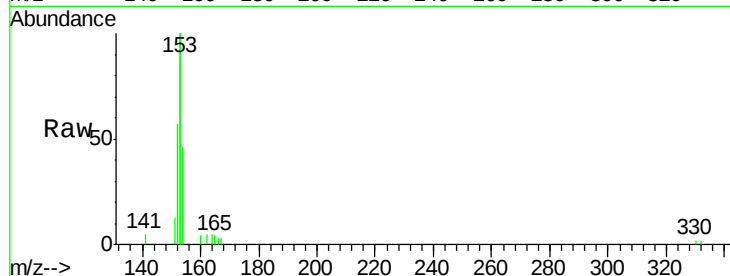
ClientSampleId :

YS19-SB40-1014

Tgt Ion	Ratio	Lower	Upper
154	100		
153	321.9	324.3	486.5#
152	185.0	154.9	232.3

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#11

Fluorene

Concen: 0.13 ng

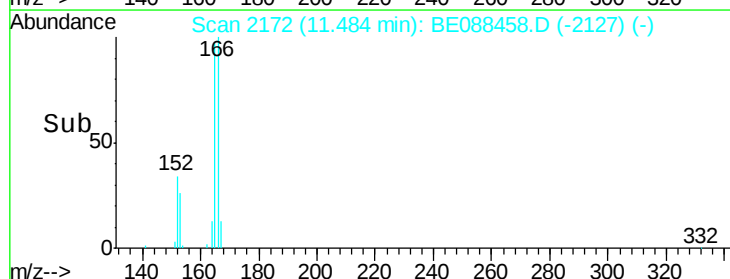
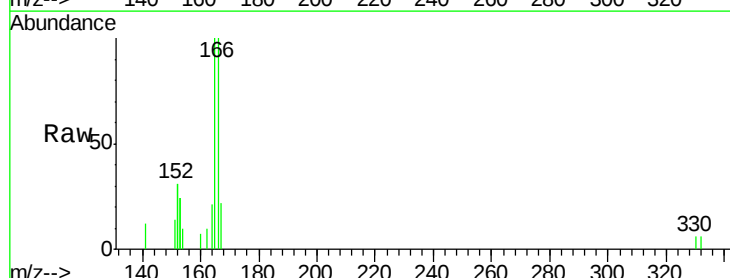
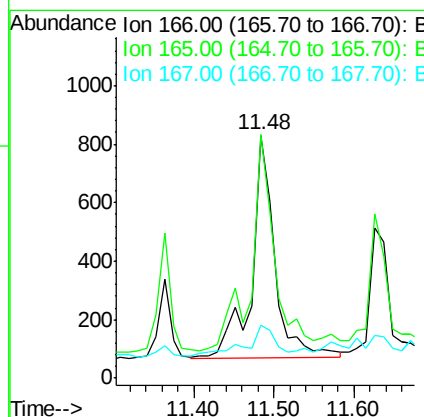
RT: 11.48 min Scan# 2172

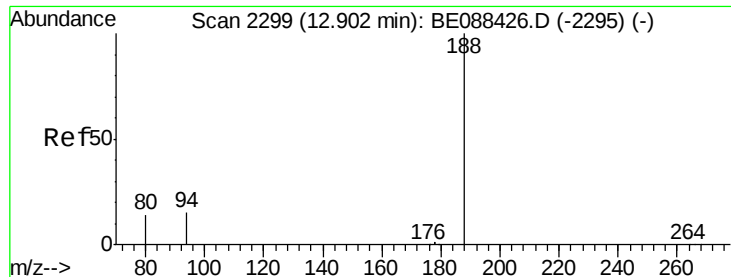
Delta R.T. -0.01 min

Lab File: BE088458.D

Acq: 1 Nov 2014 19:16

Tgt Ion	Ratio	Lower	Upper
166	100		
165	100.7	71.3	106.9
167	16.9	10.7	16.1#





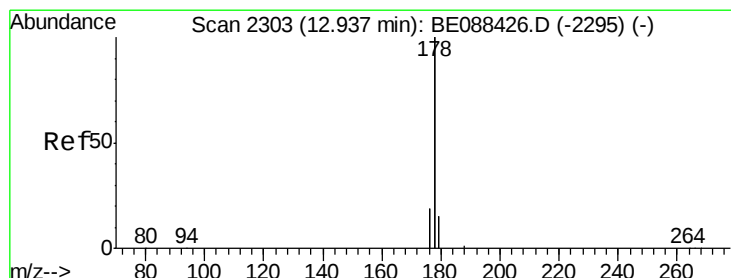
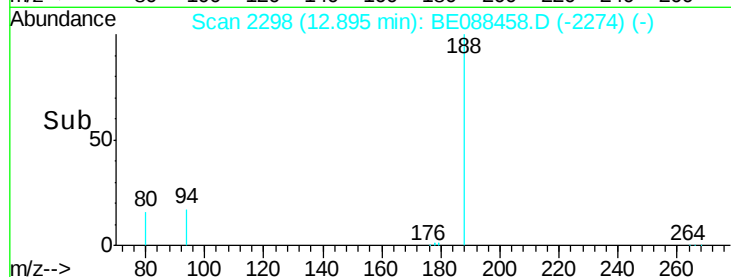
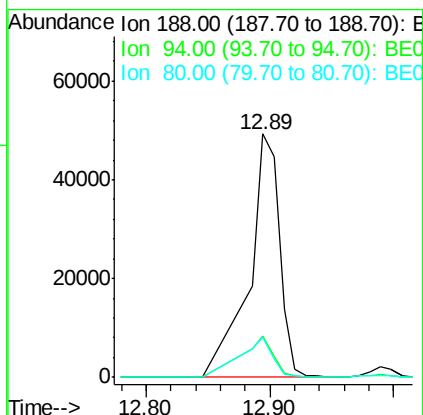
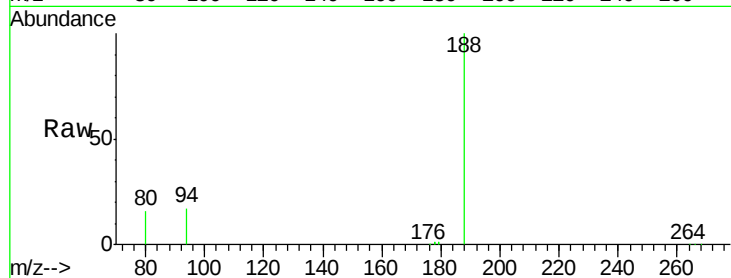
#12
Phenanthrene-d10
Concen: 5.00 ng
RT: 12.89 min Scan# 2298
Delta R.T. -0.01 min
Lab File: BE088458.D
Acq: 1 Nov 2014 19:16

Instrument :
BNA_E
ClientSampleId :
YS19-SB40-1014

Tgt Ion	Ratio	Lower	Upper
188	100		
94	17.2	11.8	17.8
80	16.2	10.9	16.3

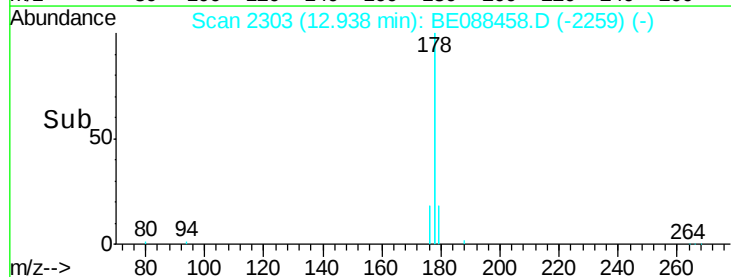
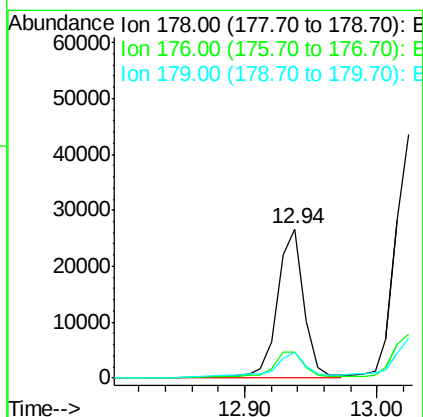
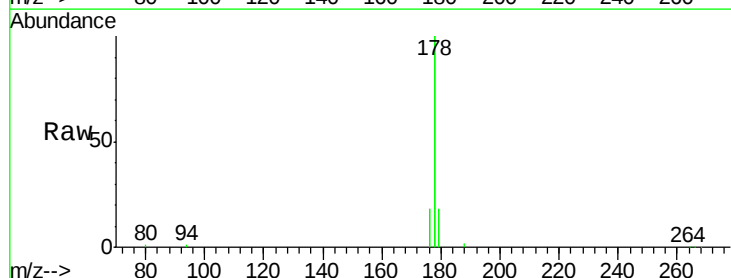
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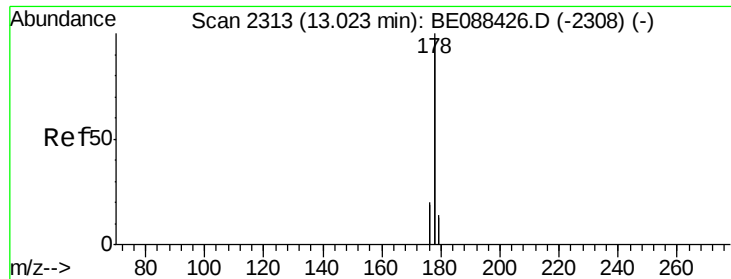
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#13
Phenanthrene
Concen: 0.59 ng m
RT: 12.94 min Scan# 2303
Delta R.T. 0.00 min
Lab File: BE088458.D
Acq: 1 Nov 2014 19:16

Tgt Ion	Ratio	Lower	Upper
178	100		
176	22.8	15.4	23.2
179	21.0	12.8	19.2#





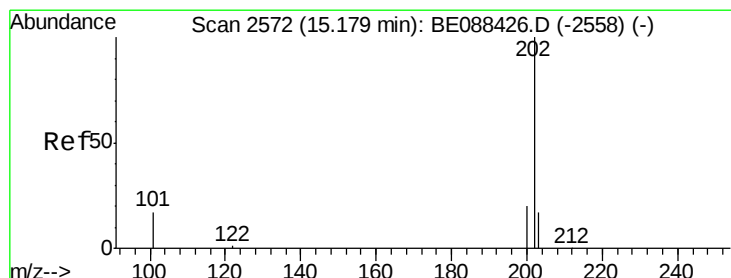
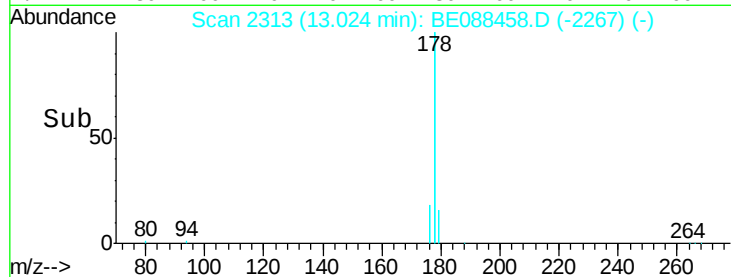
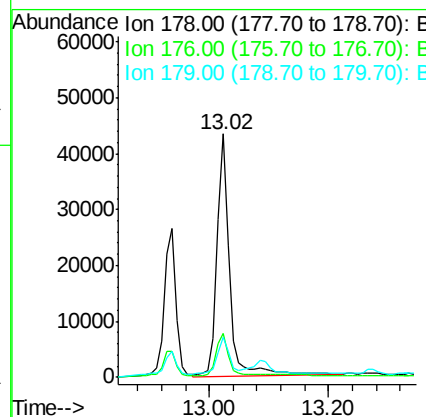
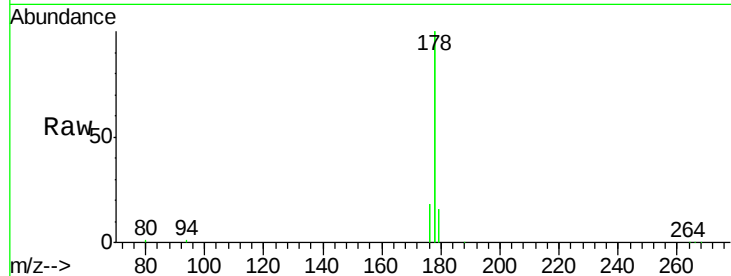
#14
 Anthracene
 Concen: 0.93 ng
 RT: 13.02 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: BE088458.D
 Acq: 1 Nov 2014 19:16

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB40-1014

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.8	15.0	22.4
179	16.3	12.5	18.7

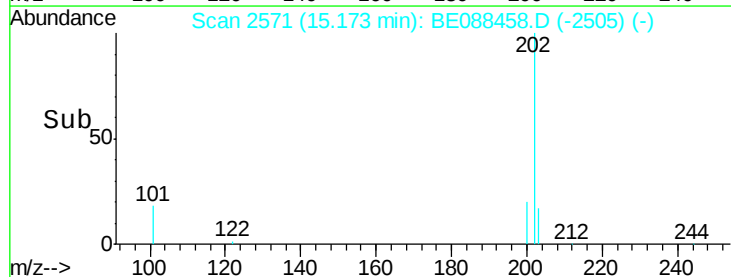
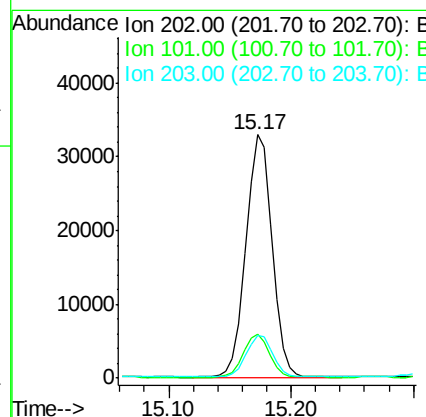
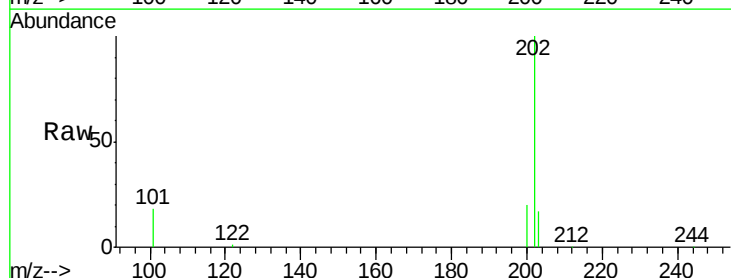
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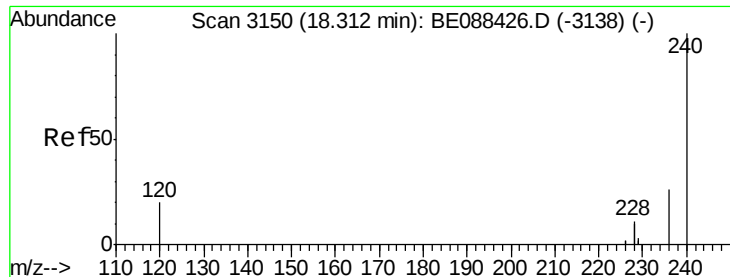
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#15
 Fluoranthene
 Concen: 3.60 ng
 RT: 15.17 min Scan# 2571
 Delta R.T. -0.01 min
 Lab File: BE088458.D
 Acq: 1 Nov 2014 19:16

Tgt Ion	Ratio	Lower	Upper
202	100		
101	17.7	14.3	21.5
203	17.1	13.6	20.4





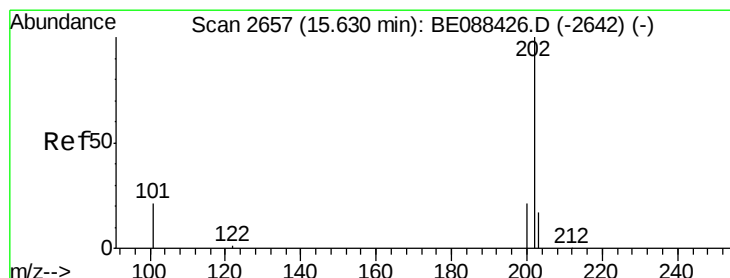
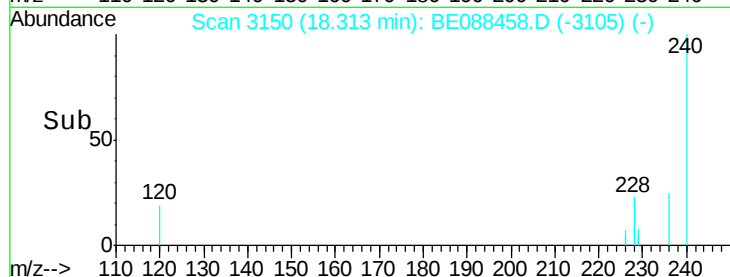
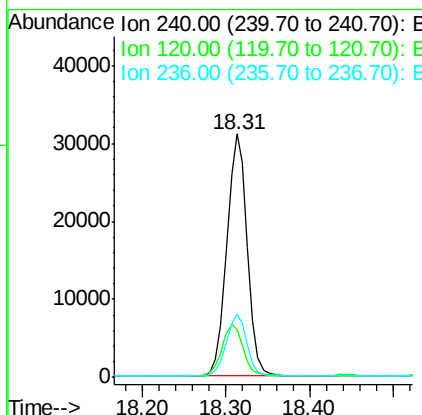
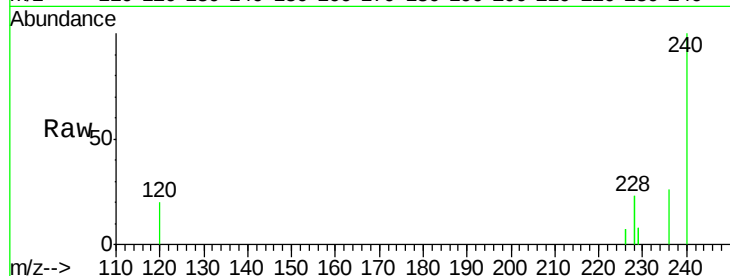
#16
Chrysene-d12
Concen: 5.00 ng
RT: 18.31 min Scan# 3150
Delta R.T. 0.00 min
Lab File: BE088458.D
Acq: 1 Nov 2014 19:16

Instrument :
BNA_E
ClientSampleId :
YS19-SB40-1014

Tgt Ion	Ratio	Lower	Upper
240	100		
120	19.7	16.4	24.6
236	25.8	20.5	30.7

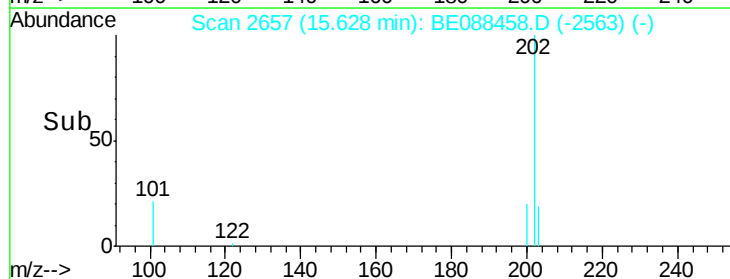
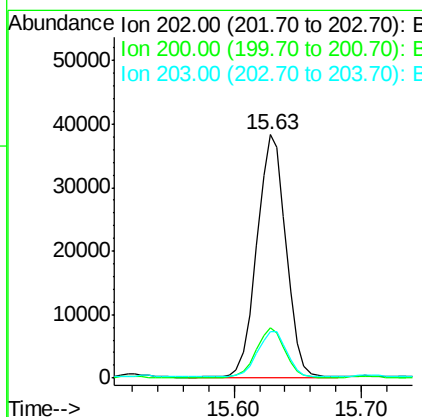
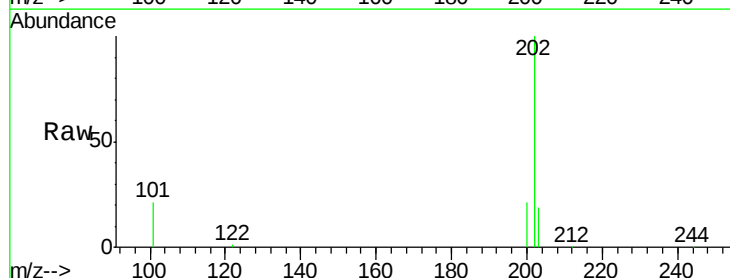
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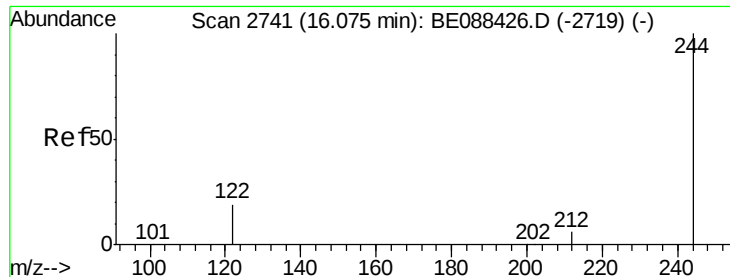
mohammad
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#17
Pyrene
Concen: 3.52 ng
RT: 15.63 min Scan# 2657
Delta R.T. -0.00 min
Lab File: BE088458.D
Acq: 1 Nov 2014 19:16

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.2	16.1	24.1
203	18.8	13.8	20.8





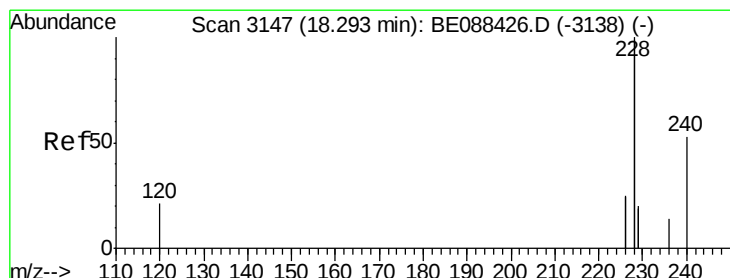
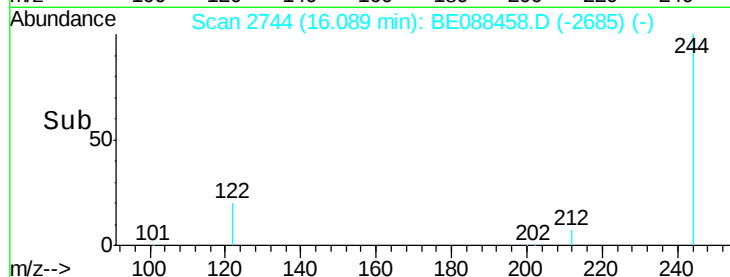
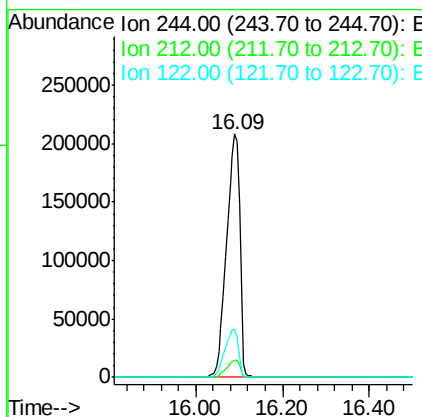
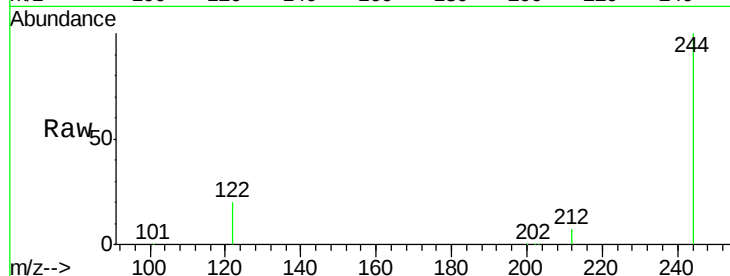
#18
 Terphenyl-d14
 Concen: 45.71 ng
 RT: 16.09 min Scan# 2744
 Delta R.T. 0.01 min
 Lab File: BE088458.D
 Acq: 1 Nov 2014 19:16

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB40-1014

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.5	8.3
122	19.8	15.6	23.4

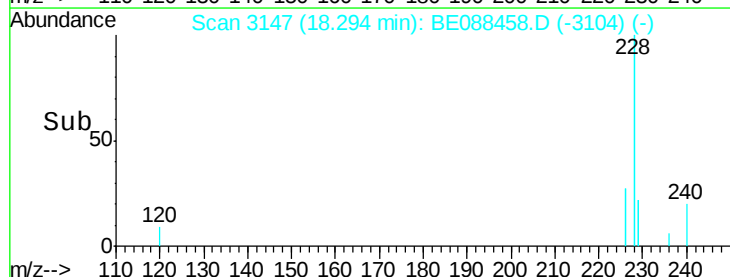
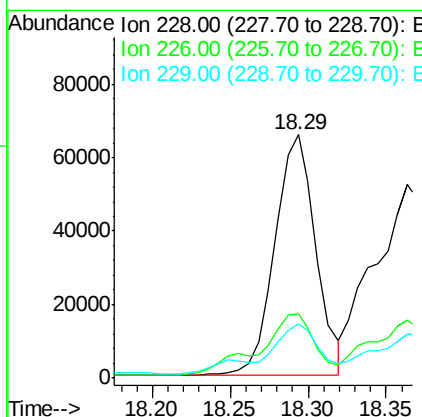
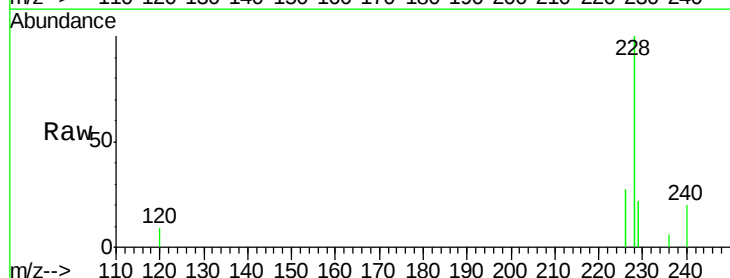
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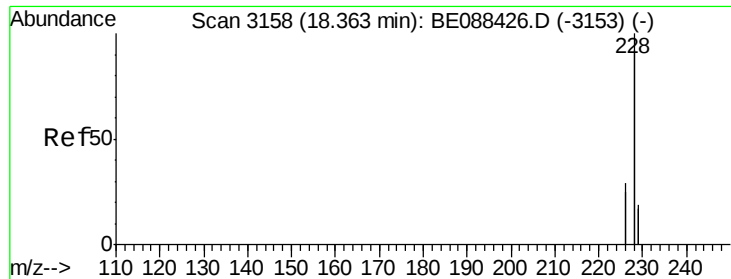
mohammad
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#19
 Benzo(a)anthracene
 Concen: 2.43 ng
 RT: 18.29 min Scan# 3147
 Delta R.T. 0.00 min
 Lab File: BE088458.D
 Acq: 1 Nov 2014 19:16

Tgt Ion	Ratio	Lower	Upper
228	100		
226	26.7	19.8	29.6
229	22.1	16.0	24.0





#20

Chrysene

Concen: 2.66 ng

RT: 18.36 min Scan# 3158

Delta R.T. 0.00 min

Lab File: BE088458.D

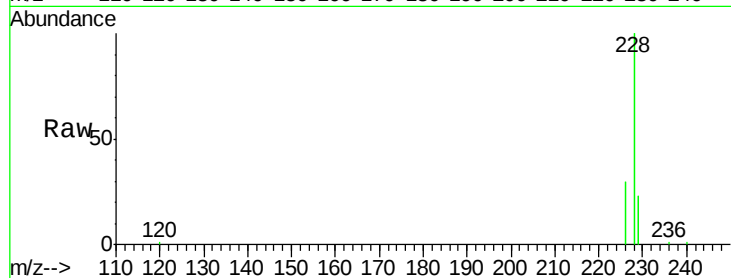
Acq: 1 Nov 2014 19:16

Instrument :

BNA_E

ClientSampleId :

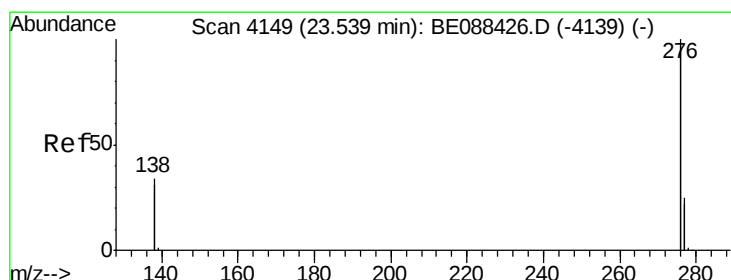
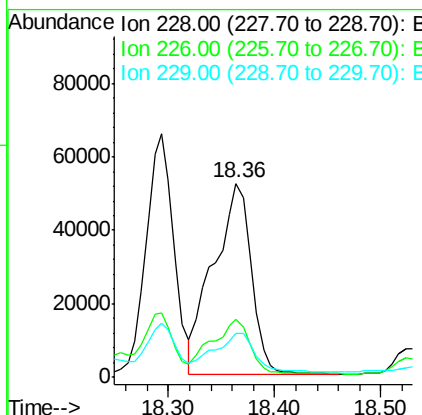
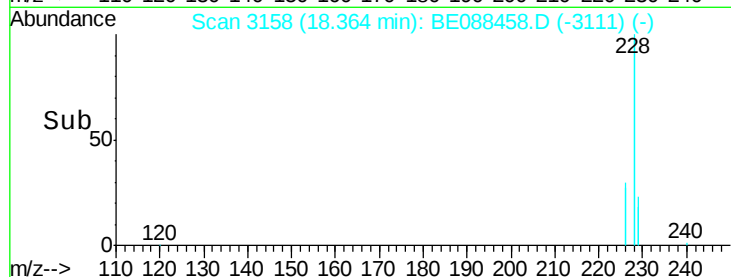
YS19-SB40-1014



Tgt Ion	Ratio	Resp	Lower	Upper
228	100	128945		
226	30.2		23.6	35.4
229	22.8		15.4	23.2

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#21

Indeno(1,2,3-cd)pyrene

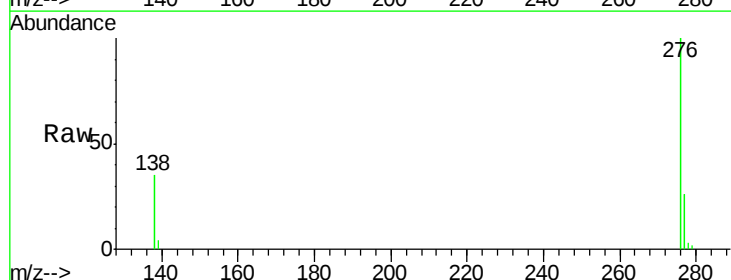
Concen: 2.29 ng

RT: 23.56 min Scan# 4153

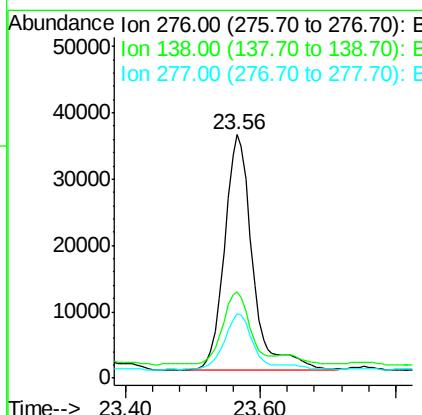
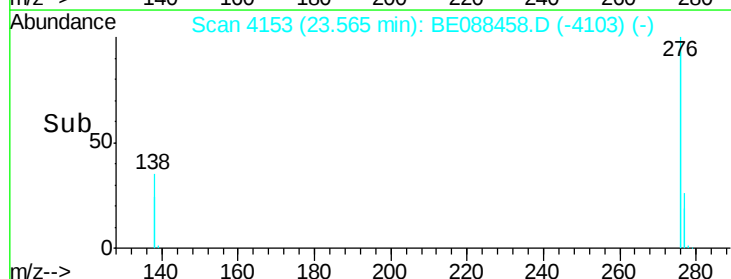
Delta R.T. 0.03 min

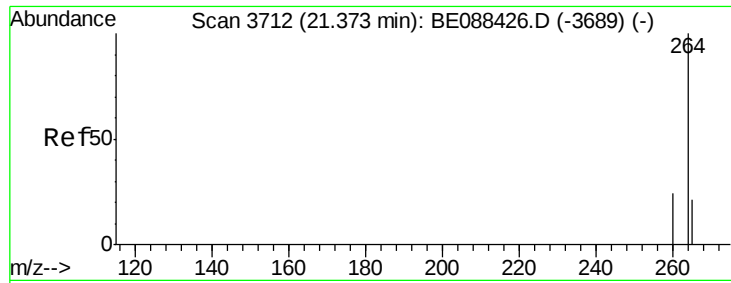
Lab File: BE088458.D

Acq: 1 Nov 2014 19:16



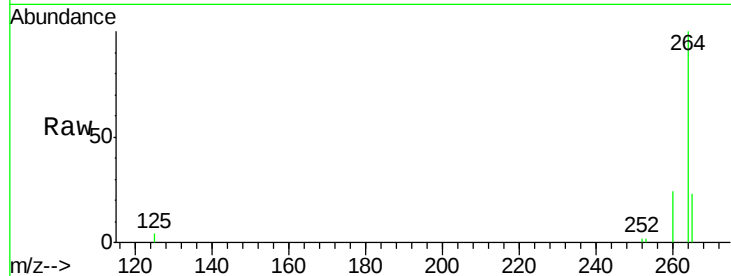
Tgt Ion	Ratio	Resp	Lower	Upper
276	100	103151		
138	29.8		20.2	30.2
277	23.0		14.8	22.2#





#22
 Perylene-d12
 Concen: 5.00 ng
 RT: 21.38 min Scan# 3714
 Delta R.T. 0.01 min
 Lab File: BE088458.D
 Acq: 1 Nov 2014 19:16

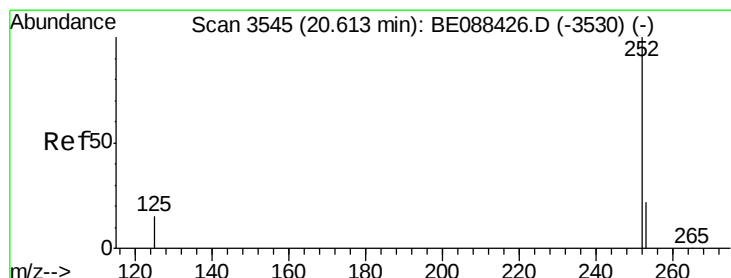
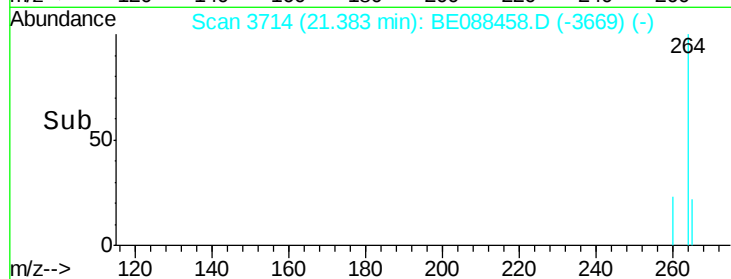
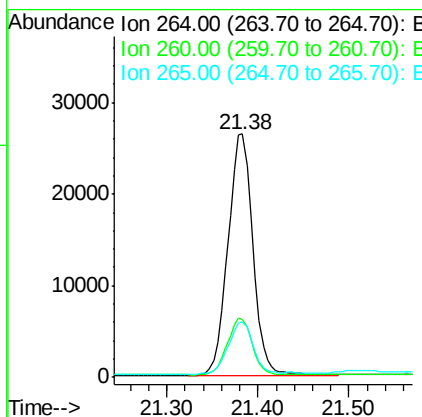
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB40-1014



Tgt Ion:	264	Resp:	50153
Ion Ratio	Lower	Upper	
264	100		
260	24.0	18.9	28.3
265	23.0	17.2	25.8

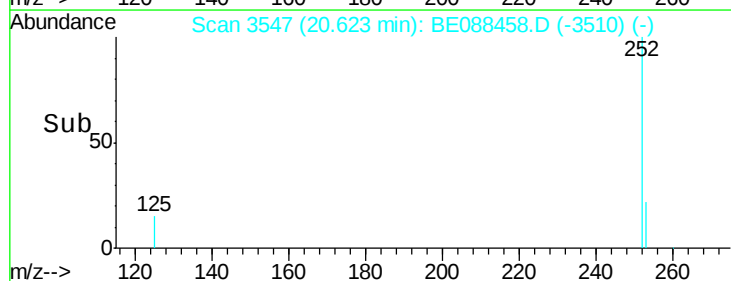
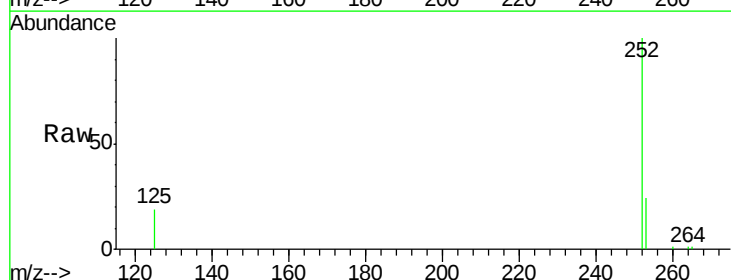
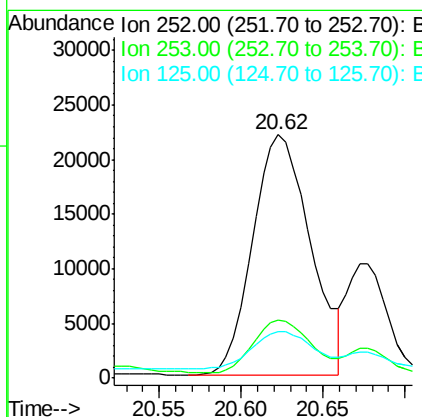
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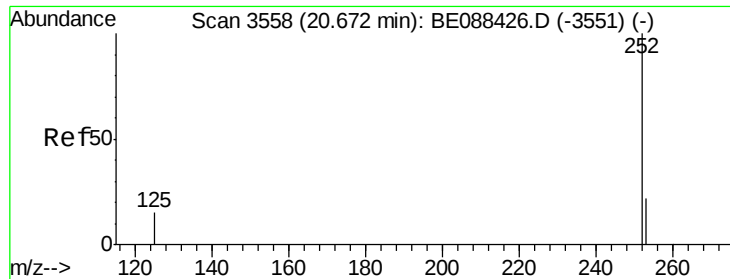
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#23
 Benzo(b)fluoranthene
 Concen: 4.92 ng
 RT: 20.62 min Scan# 3547
 Delta R.T. 0.01 min
 Lab File: BE088458.D
 Acq: 1 Nov 2014 19:16

Tgt Ion:	252	Resp:	54064
Ion Ratio	Lower	Upper	
252	100		
253	23.6	17.8	26.8
125	19.1	12.3	18.5#





#24

Benzo(k)fluoranthene

Concen: 1.45 ng

RT: 20.67 min Scan# 3558

Delta R.T. 0.00 min

Lab File: BE088458.D

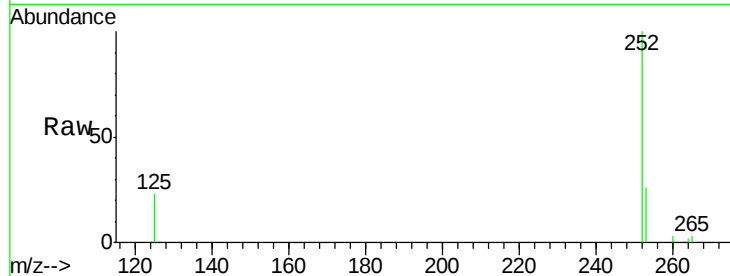
Acq: 1 Nov 2014 19:16

Instrument :

BNA_E

ClientSampleId :

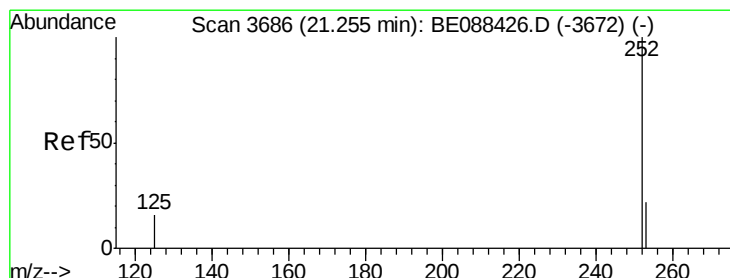
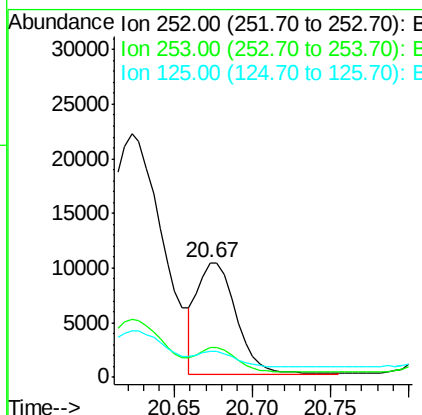
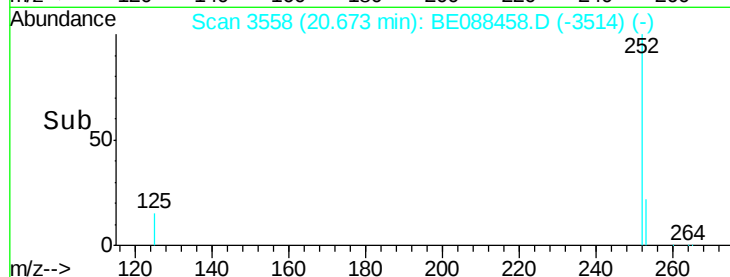
YS19-SB40-1014



Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.5	17.8	26.8
125	22.9	12.2	18.4

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#25

Benzo(a)pyrene

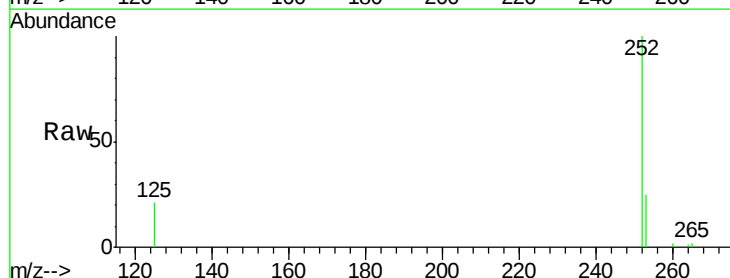
Concen: 3.16 ng

RT: 21.26 min Scan# 3688

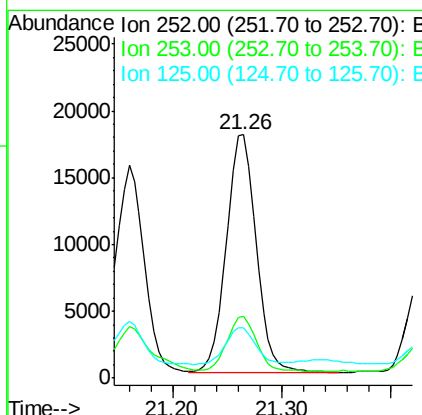
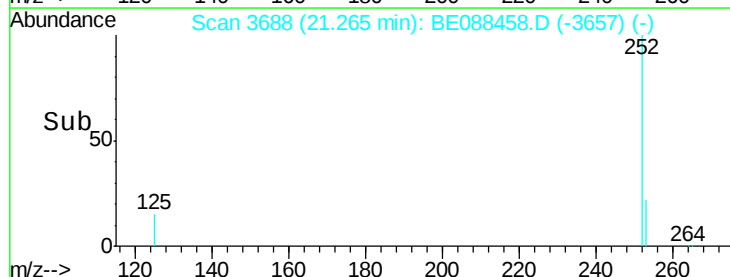
Delta R.T. 0.01 min

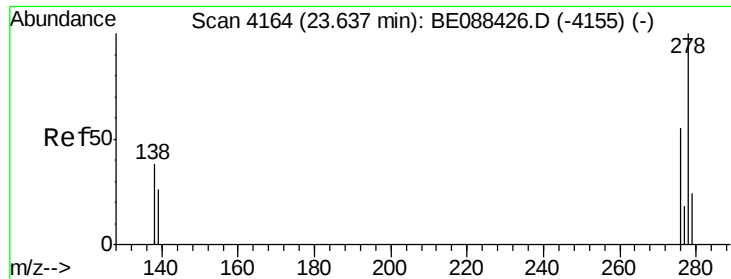
Lab File: BE088458.D

Acq: 1 Nov 2014 19:16



Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.3	18.2	27.4
125	20.5	13.7	20.5





#26

Dibenzo(a,h)anthracene

Concen: 0.52 ng

RT: 23.65 min Scan# 4166

Delta R.T. 0.01 min

Lab File: BE088458.D

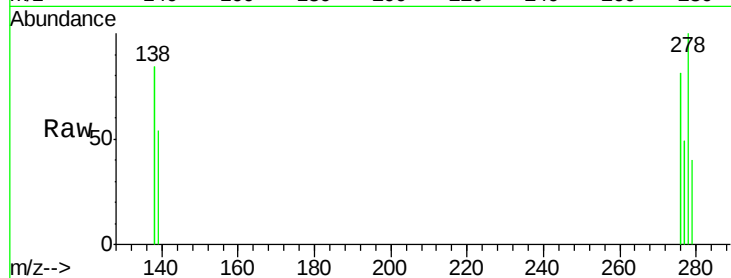
Acq: 1 Nov 2014 19:16

Instrument :

BNA_E

ClientSampleId :

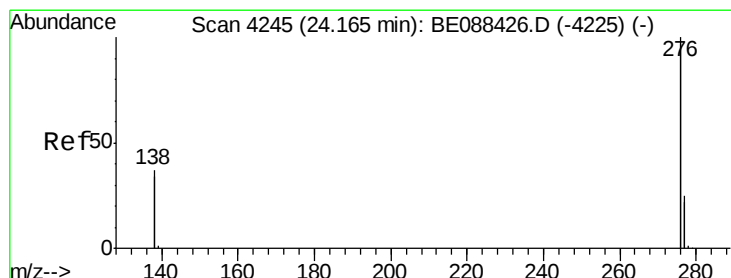
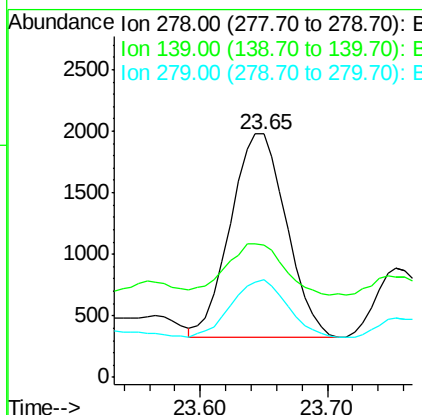
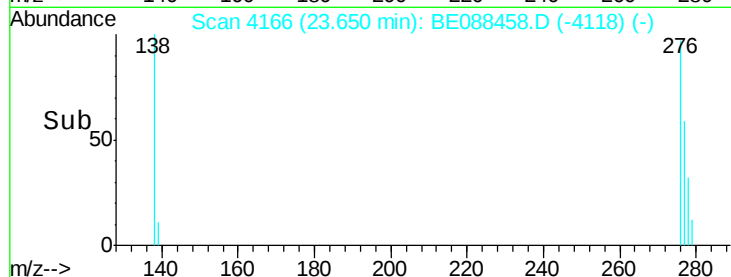
YS19-SB40-1014



Tgt Ion:	278	Resp:	5080
Ion Ratio	Lower	Upper	
278	100		
139	54.1	22.1	33.1#
279	39.9	19.7	29.5#

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#27

Benzo(g,h,i)perylene

Concen: 2.26 ng

RT: 24.20 min Scan# 4250

Delta R.T. 0.03 min

Lab File: BE088458.D

Acq: 1 Nov 2014 19:16

Tgt Ion:	276	Resp:	101656
Ion Ratio	Lower	Upper	
276	100		
277	26.6	19.8	29.6
138	37.4	29.3	43.9

